

510, 019

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number
WO 03/082866 A1(51) International Patent Classification⁷: C07D 455/00,
471/04, 491/147, 495/14, A61K 31/55, 31/4375, A61P
3/06, 3/10, 9/02, 15/10, 25/00, 25/14, 25/16, 25/18, 25/22,
25/24, 25/2813, FIN-02600 Espoo (FI). SALLINEN, Jukka [FI/FI];
Puutarhakatu 24 C 32, FIN-20100 Turku (FI).

(21) International Application Number: PCT/FI03/00255

(22) International Filing Date: 3 April 2003 (03.04.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20020642 3 April 2002 (03.04.2002) FI
60/369,347 3 April 2002 (03.04.2002) US(71) Applicant (for all designated States except US): ORION
CORPORATION [FI/FI]; Orionintie 1, FIN-02200 Espoo
(FI).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DIN BELLE,
David [CM/FI]; Louhentie 13 A 5, FIN-02130 Espoo
(FI). JOKELA, Reija [FI/FI]; Palkkatilankatu 8 C 27,
FIN-00240 Helsinki (FI). TOLVANEN, Arto [FI/FI]; Ton-
tunmäentie 25 B, FIN-02200 Espoo (FI). HAAPALINNA,
Antti [FI/FI]; Markulantie 8 A, FIN-20360 Turku (FI).
KARJALAINEN, Arto [FI/FI]; Alberganesplanadi 11 A(74) Agent: ORION CORPORATION; Orion Pharma, Indus-
trial Property Rights, P.O.Box 65, FIN-02101 Espoo (FI).(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

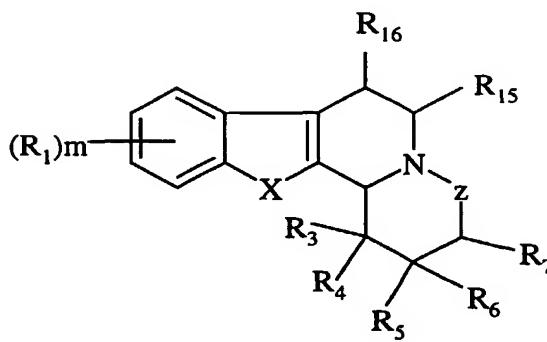
Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: POLYCYCLIC COMPOUNDS AS POTENT ALPHA2-ADRENOCEPTOR ANTAGONISTS

WO 03/082866 A1

(57) Abstract: The invention provides a compound of formula I, wherein X, Z, R₁ to R₁₀, R₁₅, R₁₆, m, n, r and t are as defined in claim 1, or a pharmaceutically acceptable salt or ester thereof, useful as an alpha-2 antagonist. The compounds of formula I can be used for the treatment of diseases or conditions where antagonists of alpha-2 adrenoceptors are indicated to be effective.